

ENGINEERING OPERATIONS COMMITTEE MEETING MINUTES AUGUST 3, 2000 - 9:00 A.M. EXECUTIVE CONFERENCE ROOM

Present: C. T. Maki G. D. Taylor J. D. Culp

C. Roberts P. F. Miller J. D. O'Doherty

T. E. Davies T. Fudaly S. Bower

Guests: M. Bott M. Sibal T. Myers

OLD BUSINESS

1. Approval of the Minutes of the July 6, 2000, Meeting - C. T. Maki

Minutes of the July 6, 2000, meeting were approved as written.

2. New Traffic Recommendations Committee - T. Myers

At the July 6, 2000, EOC meeting, C. T. Maki requested that the Construction Zone Advisory Committee and the Barrier Advisory Committee be combined into one. Therefore, a recommendation is made to establish a Traffic Recommendations Committee with seven members, representing as follows:

Traffic and Safety Division	Tom Myers
	Second Person to be Appointed
Maintenance Division	Bard Lower
Design Division	Carlos Libiran
Construction and Technology Division	Jeff Grossklaus
Regions	John Friend (Bay)
	Mark Maloney (Superior)
FHWA	Tom Fudaly, Assistant Division Administrator

The new committee will report to EOC on policy issues. Industry input will be through the regular industry partnering meetings and the Construction and Technology Division.

ACTION: The new committee structure and membership is approved, and will be organized by Tom Myers.

NEW BUSINESS

Approval of Revisions to the Department's Standard Highway Signs Manual (Metric) J. O'Doherty/M. Bott

This manual consists of detailed sign drawings used in the actual fabrication of signs. All revisions have been reviewed and approved by the Traffic and Safety, and Maintenance Divisions. The recommendations came from those two divisions, including the Lansing Sign Shop, department field personnel, region sign shops, and sign contractors and fabricators. Several of the new or revised signs are in support of the department efforts, such as the recently approved Temporary Traffic Control for Construction Areas Typicals, Logo Signing, Car Pool Signing, and Seat Belt Signing.

ACTION:

The revisions are approved and can be distributed to the holders of the Standard Highway Signs Manual (Metric). The Traffic and Safety Division will prepare a Notice to Bidders to highlight the changes to temporary sign panel materials.

2. Cold-in-Place Recycling Pavement Rehabilitation - S. Bower

EOC directed department pavement staff, at the July 1999 EOC meeting, to investigate any applicable uses of Cold-in-Place Recycling technology. Region and Lansing staff participated in a tour of past projects in Ontario in the Summer of 1999.

Ontario has experienced positive results with this rehabilitation method. The process consists of milling and recycling existing asphalt pavements all within a paving train operation. The recycled material is immediately re-laid and rolled similar to Hot Mix Asphalt. Cold-in-Place Recycling can be considered as an alternative to conventional mill and resurface, and crush and shape overlay projects.

A recommendation was made for the regions to program some pilot projects, after submitting for review by the Pavement Committee. Selection and design guidelines were presented along with a special provision for Bituminous Base Cold-in-Place Recycling (approval date July 14, 2000).

ACTION:

The regions will submit candidate projects to the Pavement Committee for consideration. The Pavement Committee will screen proposed projects and submit proposed pilot projects to EOC for review and approval.

3. Pavement Selections - S. Bower

The following pavement selections were approved by EOC during the last month via email:

A. I-496, Cedar Street to US-127: CS 33045, JN 51396

The reconstruction alternates considered were Alternate 1, a flexible bituminous pavement, and Alternate 2, a jointed reinforced concrete pavement.

A life cycle cost analysis was performed. Alternate 2 was approved based on having the lowest Equivalent Uniform Annual Cost. The pavement design and cost analysis summary for Alternate 2 are as follows:

260 mm JRCP (8.0m joint spacing) (Mainline & Outside Shoulder)
220 mm JRCP (8.0m joint spacing) (Inside Shoulder)
100 mm Open Graded Drainage Course
Geotextile Separator
150 mm Open Graded Underdrains
219 mm +/ Existing Sand Subbase
579 mm
Present Value Initial Construction Costs
Present Value Maintenance Costs
Equivalent Uniform Annual Cost

B. M-6 Interchange With I-196, I-196 to Jackson Street: CS 70025, JN 33330

The reconstruction alternates considered were Alternate 1, a flexible bituminous pavement, and Alternate 2, a jointed plain concrete pavement.

A life cycle cost analysis was performed. Alternate 2 was approved based on having the lowest Equivalent Uniform Annual Cost. The pavement design and cost analysis summary for Alternate 2 are as follows:

260 mm	Jointed Plain Concrete Pavement (4.5m joint spacing)
	Freeway Shoulder Option
100 mm	Open Graded Drainage Course
100 mm	Aggregate Separator
150 mm	Open Graded Underdrains
300 mm	Sand Subbase
760 mm	Total Thickness

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Present Value Initial Construction Cos	ts
Present Value Initial User Costs	N/A
Present Value Maintenance Costs	\$56,639/kilometer
Equivalent Uniform Annual Cost	\$20,561/kilometer

(Signed Copy on File at C&T/Secondary)
Jon W. Reincke, Secretary

Engineering Operations Committee

JWR:JDC:kat

EOC Members cc:

Region Engineers

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J. R. DeSana	R. J. Risser, Jr. (MCPA)	L. Stornant	T. L. Nelson
R. J. Lippert, Jr.	A. C. Milo (MRBA)	J. Ruszkowski	R. D. Till
D. L. Smiley	J. Becsey (MAPA)	C. Libiran	M. Frierson
M. Nystrom (AUC)	D. Hollingsworth (MCA)	G. J. Bukoski	C. W. Whiteside
M. Newman (MAA)	J. Steele (FHWA)	K. Rothwell	T. E. Myers
J. Murner (MRPA)	` ,		2